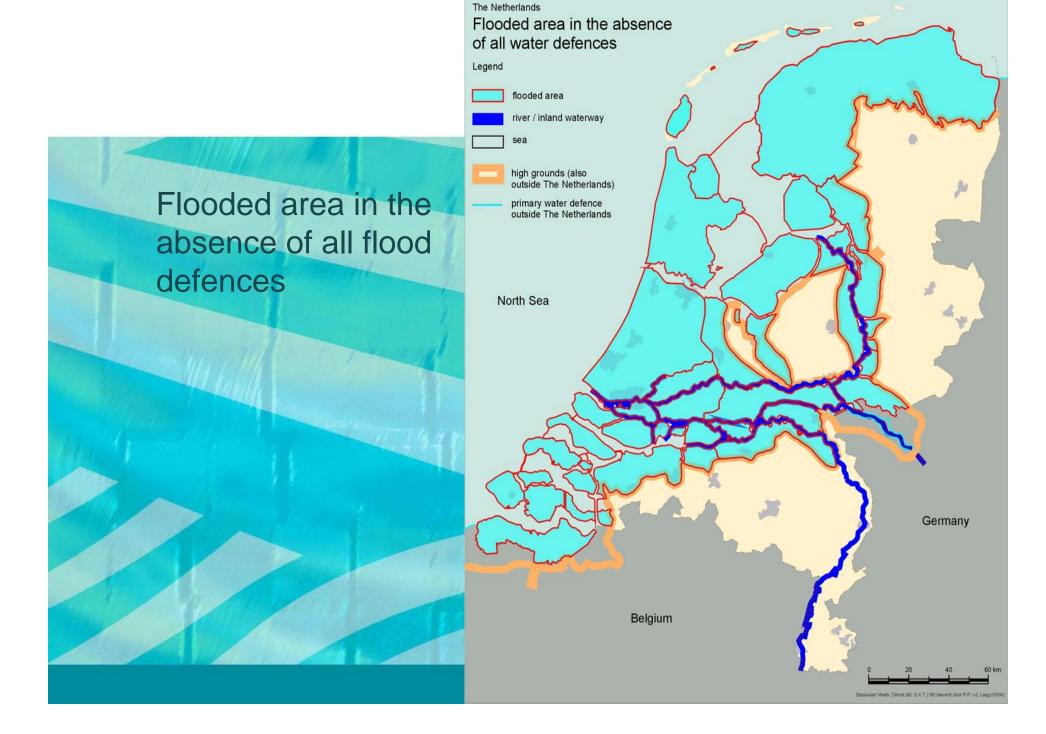
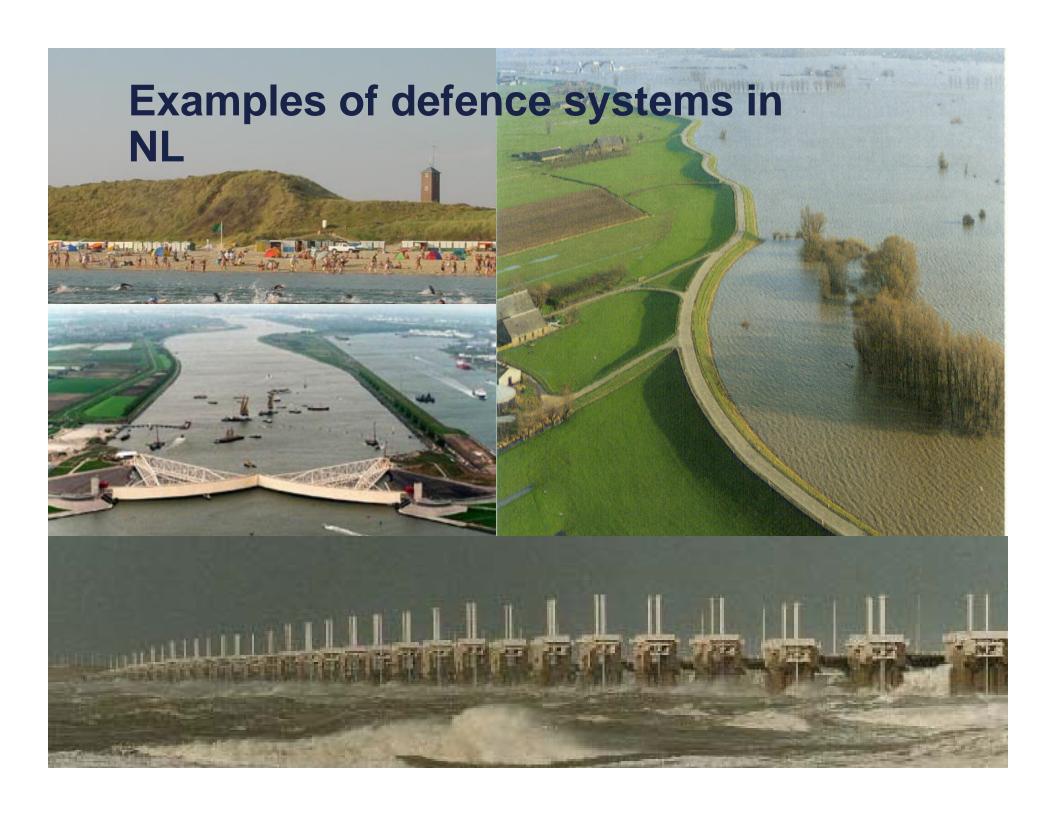




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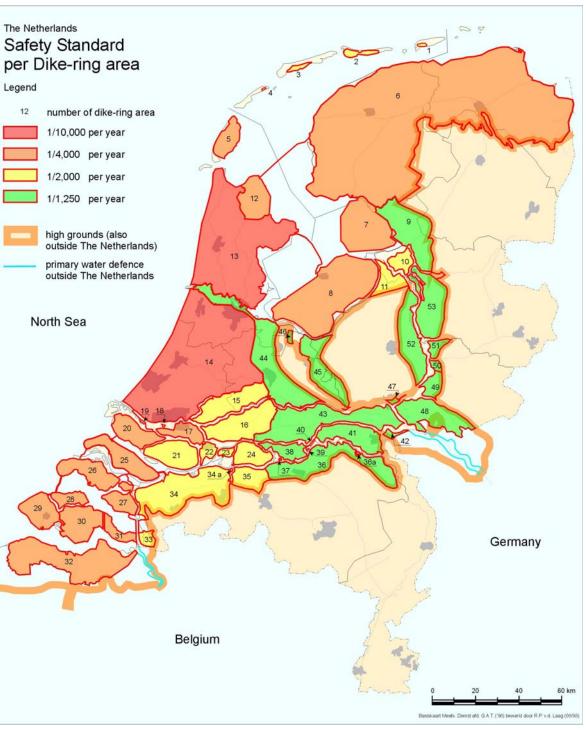




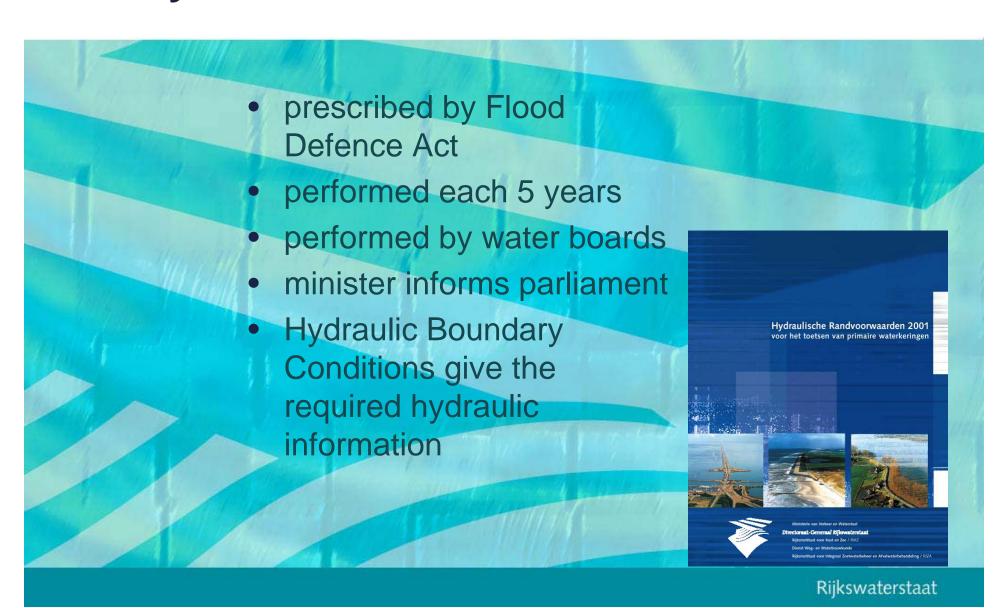


Safety standards

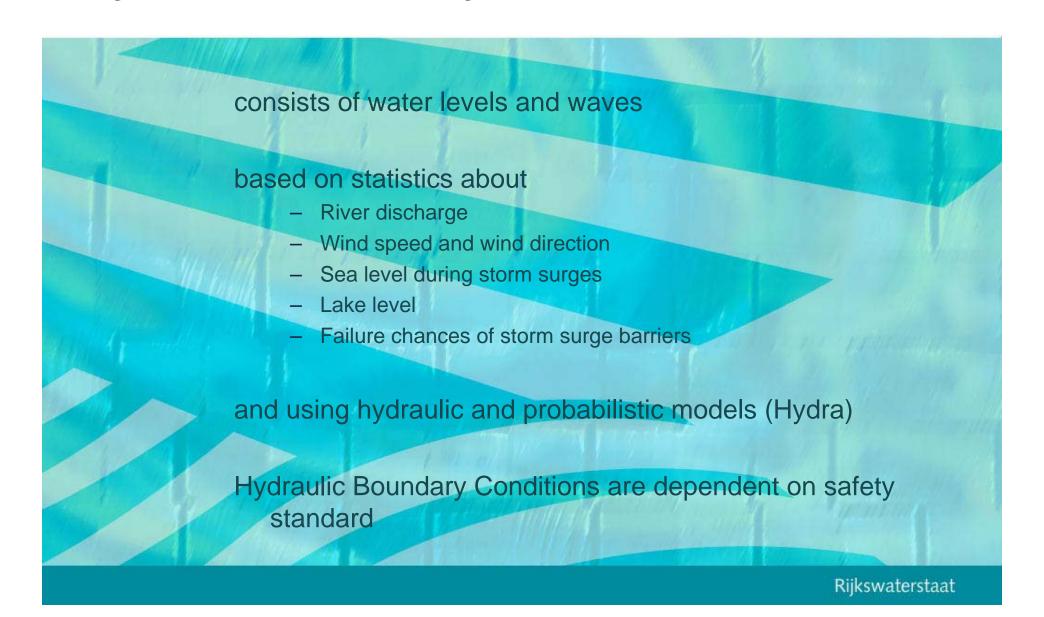




Safety assessment



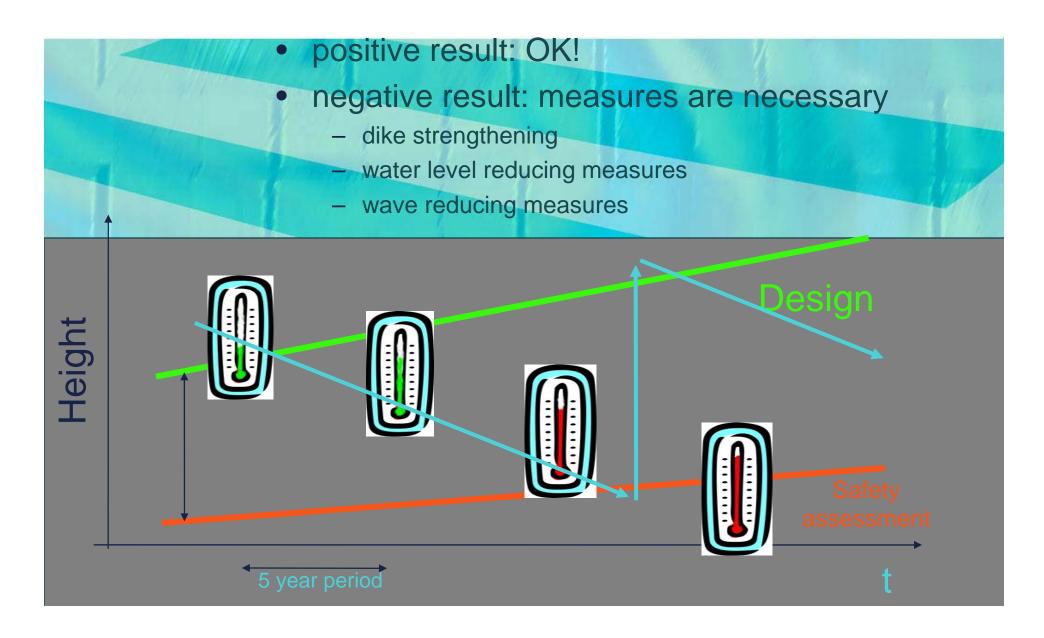
Hydraulic Boundary Conditions



Hydraulic Boundary Conditions

- renewed each 5 years
- based on actual data
 - Extended series discharges, storm surge data
 - Actual geometrical data, vegetation data, etc.
- using newest, broad accepted insights in modelling the physical processes
- developed by Rijkswaterstaat (in cooperation with the water boards)

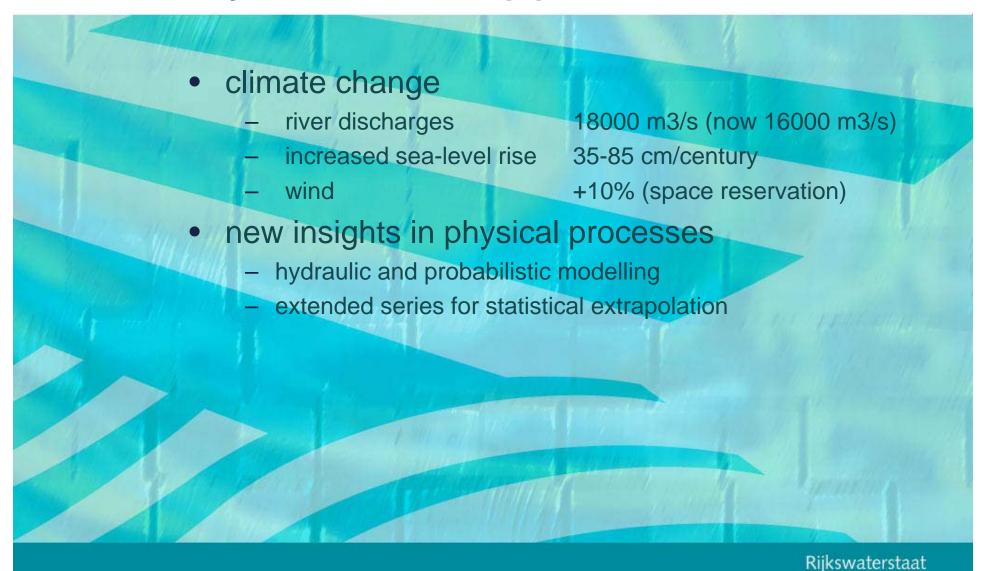
Assessment results



Dike strengthening in the **Netherlands**

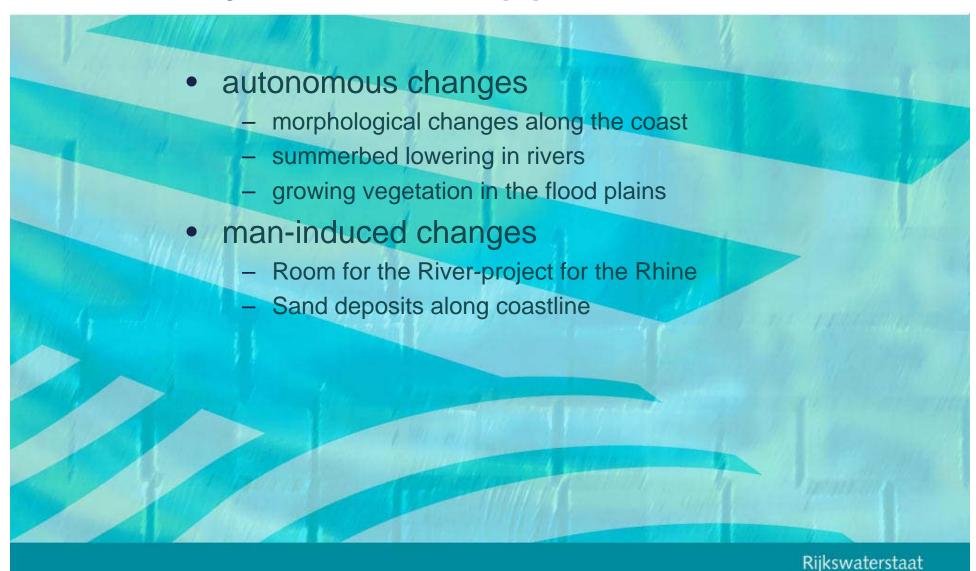
- Dike should last for 50-100 years
- Solid design instead of minimal design
- No legislation available
- Design hydraulic conditions are the responsibilty of the water boards

Design conditions ≠ **Hydraulic Boundary Conditions (1)**

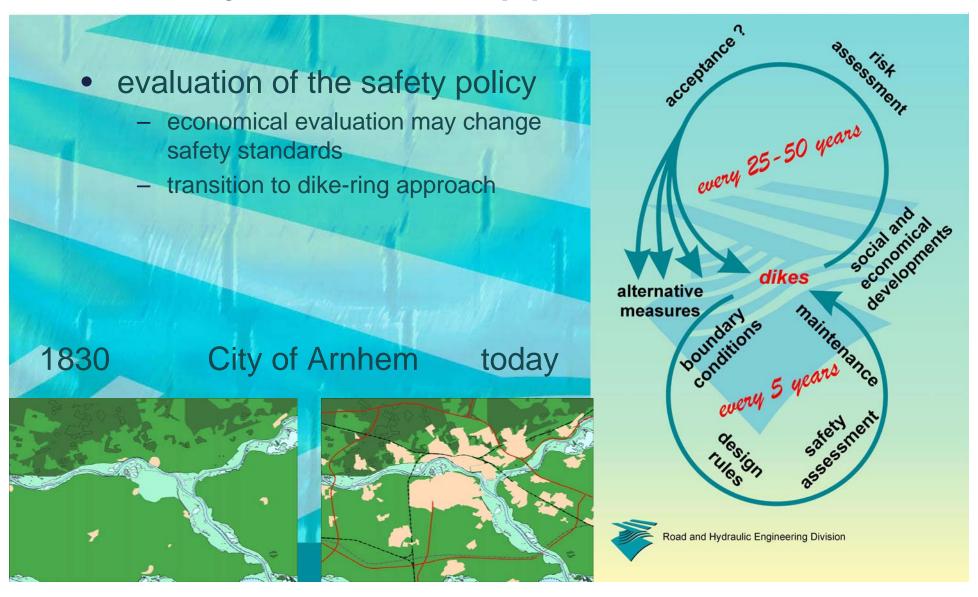


11 juli 2006

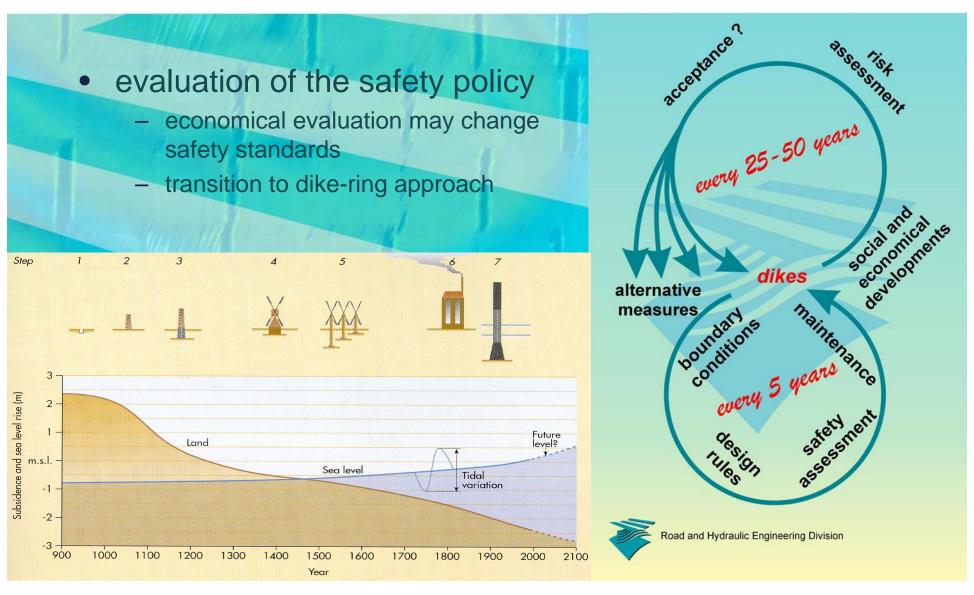
Design conditions ≠ **Hydraulic Boundary Conditions (2)**



Design conditions ≠ **Hydraulic Boundary Conditions (3)**



Design conditions ≠ **Hydraulic Boundary Conditions (3)**

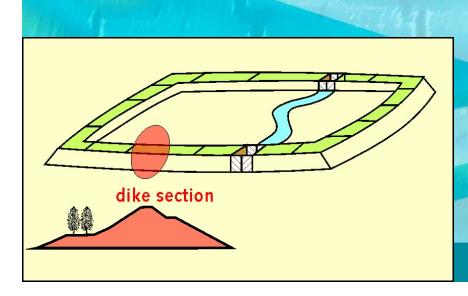


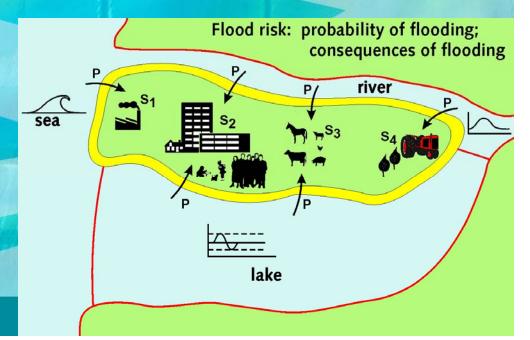
Determining d

Design conditions ≠ **Hydraulic Boundary Conditions (3)**

- evaluation of the safety policy
 - economical evaluation may ge safety
 standards
 - transition to dike-ring approach (flood probability or flood risk)







Conclusions

